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PATENT ABSTRACTS OF JAPAN

of D6

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(21)Application number : 60-163548

(71)Applicant : SHIN ETSU CHEM CO LTD

(22)Date of filing : 24.07.1985

(72)Inventor : TAKAMIZAWA MINORU
ISHIHARA TOSHINOBU
YAMAMOTO AKIRA**(54) PRODUCTION OF TERTIARY HYDROCARBONSILYL COMPOUND****(57)Abstract:**

PURPOSE: To safely and readily obtain the titled compound useful as a special silylating agent used for synthesizing medicines without using dangerous Li compounds, by reacting a Grignard reagent with a specific organosilicon compound in an organic solvent.

CONSTITUTION: (A) A Grignard reagent expressed by the formula R₁MgX (R₁ is tertiary hydrocarbon; X is halogen), e.g. tert-butylmagnesium chloride, is reacted with (B) an organosilicon compound expressed by the formula AmR_{2n}SiH_{4-m-n} [R₂ is (substituted) monofunctional hydrocarbon; a is alkoxy; m is 1,2 or 3; n is 0, 1 or 2; m+n≤3], e.g. dimethylmethoxysilane, in an organic solvent, preferably THF, preferably at 40W100°C in an inert atmosphere to afford the aimed compound, e.g. tert-butylethoxysilane.

LEGAL STATUS

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EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 62022790
PUBLICATION DATE : 30-01-87

APPLICATION DATE : 24-07-85
APPLICATION NUMBER : 60163548

APPLICANT : SHIN ETSU CHEM CO LTD;

INVENTOR : YAMAMOTO AKIRA;

INT.CL. : C07F 7/18 C07F 7/08

TITLE : PRODUCTION OF TERTIARY HYDROCARBONSILYL COMPOUND

ABSTRACT : PURPOSE: To safely and readily obtain the titled compound useful as a special silylating agent used for synthesizing medicines without using dangerous Li compounds, by reacting a Grignard reagent with a specific organosilicon compound in an organic solvent.

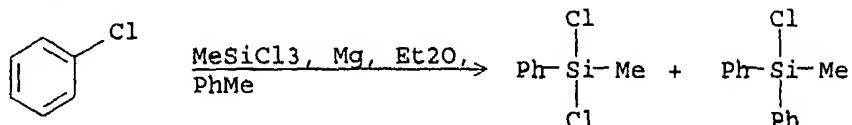
CONSTITUTION: (A) A Grignard reagent expressed by the formula R^1MgX (R^1 is tertiary hydrocarbon; X is halogen), e.g. tert-butylmagnesium chloride, is reacted with (B) an organosilicon compound expressed by the formula $A_mR^2_nSiH_{4-m-n}$ [R^2 is (substituted) monofunctional hydrocarbon; a is alkoxy; m is 1,2 or 3; n is 0, 1 or 2; $m+n\leq 3$], e.g. dimethylmethoxysilane, in an organic solvent, preferably THF, preferably at 40–100°C in an inert atmosphere to afford the aimed compound, e.g. tert-butylethoxysilane.

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feed of MeSiCl₃ to give Ph₂SiMeCl/PhMeSiCl₂ in controllable ratios.

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NOTE: continuous process, ratio of products depends on ratio of reactants

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 5 OF 44 CASREACT COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 138:4688 CASREACT
 TITLE: Method of preparing triphenylsilanol by phenylation of chloro(phenyl)silanes with phenylmagnesium chloride and subsequent reaction with water in mixed THF-toluene solvent
 INVENTOR(S): Zhun, V. I.; Zhun, A. B.; Polivanov, A. N.; Chernyshev, E. A.
 PATENT ASSIGNEE(S): Obshchestvo s Ogranichennoi Otvetstvennost'yu NPP "MAGNOS", Russia
 SOURCE: Russ., No pp. given
 CODEN: RUXXE7
 DOCUMENT TYPE: Patent
 LANGUAGE: Russian
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RU 2174124	C2	20010927	RU 1999-125791	19991203
PRIORITY APPLN. INFO.:			RU 1999-125791	19991203
AB	Triphenylsilanol is prepared by reaction of a phenylchlorosilane, e.g., Ph ₂ SiCl ₂ or PhSiCl ₃ , with H ₂ O in an organic solvent such that the phenylchlorosilane is treated with PhMgCl in a mixture of THF and toluene, and then the reaction mixture is treated with H ₂ O in the same solvents, whereupon the desired product is isolated; the THF to toluene ratio used ranges from 1:3 to 3:1 by volume, resp. In an example, treating 500 g Ph ₂ SiCl ₂ with PhMgCl generated in situ from 225 g PhCl and Mg in a mixture of 250 mL THF and 250 mL PhMe and holding the mixture at room temperature 6 h followed by treatment with H ₂ O gave 94.2% Ph ₃ SiOH. This method makes it possible to prepare the desired product without isolation of Ph ₃ SiCl from the reaction mixture followed by treatment with H ₂ O and recovery of final product and also to use a mixture of solvents, thus causing greater process selectivity.			